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## Omnivise E3000 Excitation system Thyripart (T400 or S) (K-ES-136)

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### Target Group

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The participants learn to operate the Thyripart and the tasks of the components, to recognize and delimit faults independently and to support the service technician of the manufacturer, respectively. Introduction to the commissioning.

### Content

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Basics of synchronous generators  
Introduction of the brushless excitation system with rotating rectifiers  
Hardware components: load transformer and Harz-circuit  
Digital closed loop system  
Power converter  
Manual Mode: Excitation Current Regulator (ECR)  
Automatic mode: Automatic Voltage Regulator (AVR), cos  $\phi$ -, Q-regulator, limiter, PSS  
Operation and maintenance  
Dealing with the documentation of the Thyripart  
Introduction to the operation software Simatic Manager, CFC and DriveMonitor or dedicated webbrowser and SIMOTION Scout  
Conducted commissioning of the Thyripart, using the example of RG3-T4 with exercises at the generator model, or RG3-S, respectively (the load transformer and Harz-circuit is not available).

### Prerequisites

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Target group: Service and commissioning staff of excitation systems in a power plant  
Requirements: Basic knowledge of electrical engineering  
Number of participants: 2-3  
Language: English  
Duration: 5 days  
Location:  
Power Academy Erlangen  
Virtual Classroom  
Date: upon consultation

### Type

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Face-to-face training

### Duration

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5 days

### Language

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en